pyrazol-1-yl]methyl]propyl 2-oxo-3-[(2-pyridinylsulfonyl)amino]propylcarbamate), which are useful as cathepsin K inhibitors. The described invention also includes methods of making such ketone derivs. as well as methods of using the same in the treatment of disorders, including osteoporosis. Although the methods of preparation are not claimed, 19 example prepns. are included. Each of the compds. exemplified in the Examples section bind with high affinity (IC50 < 10 μM) to the cathepsin K enzyme, e.g. (1S)-1-[[4-(1H-imidazol-1-yl)phenoxy]methyl]-2,2-dimethylpropyl (1S)-1-[[(2-pyridinylsulfonyl)amino]acetyl]pentylcarbamate exhibits an IC50 of .apprx.10-1 nM or less. For I: A = (Q3)p-(Q2)n-(Q1)-(Q)m- (Q is CH2 and m = 0-2, or Q is OCH2 and m is 1, or Q is N(R3)CH2 and m is 1, where R3 is H or C1-C6 alkyl; Q1 is aryl, heteroaryl, or heterocyclyl; Q2 is CH2 and n is 0 or 1, or Q2 is O and n is 1, or Q2 is N(R3) and n is 1, where R3 is H or C1-C6 alkyl; Q3 is aryl or heteroaryl and p is 0 or 1). R1 is alkyl or cycloalkyl, said cycloalkyl may be optionally substituted with alkyl; D is O or S; R2 is H or alkyl; and Z is -(X1)q-(X2) (X1 is S(O)2, C(O), or -CH2-, and q = 0-2; and X2 is aryl, heteroaryl, or heterocyclyl). For II: B is -(Q1)a-(Q2)b-(Q3) (Q1 is C(O), S(O)2, or CR2R3, where R2 and R3 each = H or C1-C6 alkyl, and a = 0-3; Q2 is O, S, NR2, or CR2R3, where R2 and R3 each = H or C1-C6 alkyl, and b = 0-3; and Q3 is aryl, heteroaryl, heterocyclyl, aralkyl, or alkyleneheterocyclyl). R1 is H or alkyl; Z is -(X1)q-(X2) (X1 is S(O)2, C(O), or alkyl, and q is 0 or 1; and X2 is aryl, heteroaryl, or heterocyclyl).

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 39 OF 78 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:142659 CAPLUS
DOCUMENT NUMBER: 136:184119
TITLE: Preparation of (hydroxyethyl)**ureas** as inhibitors of Alzheimer's β-amyloid production
INVENTOR(S): Wolfe, Michael S.; Selkoe, Dennis J.
PATENT ASSIGNEE(S): The Brigham and Women's Hospital, Inc., USA
SOURCE: PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2002014264	A2	20020221	WO 2001-US25267		20010810
WO 2002014264	A3	20020530			
W: AU, CA, JP					
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR					
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US 6696488	B2	20040224			
PRIORITY APPLN. INFO.:			US 2000-225043P	P	20000811
			WO 2001-US25267	W	20010810

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398515-99-6P 398516-03-5P 398516-06-8P
398516-08-0P 398516-10-4P 398516-13-7P
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